Learning to Fly: The Wright Brother's Adventure			
2007 Mathematics			
Academic Standards			
Minnesota Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
New Data	MN	MA.6.6.3.3.1	Solve problems in various contexts involving conversion of weights, capacities, geometric measurements and times within measurement systems using appropriate units.
1902: Success at Last	MN	MA.6.6.1.1.3	Understand that percent represents parts out of 100 and ratios to 100.
1902: Success at Last	MN	MA.6.6.1.2.2	Apply the relationship between ratios, equivalent fractions and percents to solve problems in various contexts, including those involving mixtures and concentrations.
1902: Success at Last	MN	MA.6.6.1.3.3	Calculate the percent of a number and determine what percent one number is of another number to solve problems in various contexts.
1902: Success at Last	MN	MA.6.6.3.3.1	Solve problems in various contexts involving conversion of weights, capacities, geometric measurements and times within measurement systems using appropriate units.
1903: Powered Flight	MN	MA.6.6.1.2.3	Determine the rate for ratios of quantities with different units.
1903: Powered Flight	MN	MA.6.6.3.3.1	Solve problems in various contexts involving conversion of weights, capacities, geometric measurements and times within measurement systems using appropriate units.
1903: Powered Flight	MN	MA.6.6.3.3.2	Estimate weights, capacities and geometric measurements using benchmarks in measurement systems with appropriate units.
1904: Improvement in Dayton	MN	MA.6.6.3.3.1	Solve problems in various contexts involving conversion of weights, capacities, geometric measurements and times within measurement systems using appropriate units.
1905: Complete a Flight at Last	MN	MA.6.6.3.3.1	Solve problems in various contexts involving conversion of weights, capacities, geometric measurements and times within measurement systems using appropriate units.
Learning to Fly: The Wright Brother's Adventure			
2007 Mathematics			
Academic Standards			

Minnesota Mathematics			
Grade 7			
Activity/Lesson	**State**	**Standards**	
1902: Success at Last	MN	MA.7.7.1.2.6	Demonstrate an understanding of the relationship between the absolute value of a rational number and distance on a number line. Use the symbol for absolute value.
1902: Success at Last	MN	MA.7.7.4.3.2	Calculate probability as a fraction of sample space or as a fraction of area. Express probabilities as percents, decimals and fractions.
1903: Powered Flight	MN	MA.7.7.1.1.2	Understand that division of two integers will always result in a rational number. Use this information to interpret the decimal result of a division problem when using a calculator.
1903: Powered Flight	MN	MA.7.7.1.2.6	Demonstrate an understanding of the relationship between the absolute value of a rational number and distance on a number line. Use the symbol for absolute value.
1903: Powered Flight	MN	MA.7.7.2.2.1	Represent proportional relationships with tables, verbal descriptions, symbols, equations and graphs; translate from one representation to another. Determine the unit rate (constant of proportionality or slope) given any of these representations.
Learning to Fly: The Wright Brother's Adventure			
2007 Mathematics			
Academic Standards			
Minnesota Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
1902: Success at Last	MN	MA.8.8.3.1.2	Determine the distance between two points on a horizontal or vertical line in a coordinate system. Use the Pythagorean Theorem to find the distance between any two points in a coordinate system.
1903: Powered Flight	MN	MA.8.8.2.2.4	Represent arithmetic sequences using equations, tables, graphs and verbal descriptions, and use them to solve problems.
1903: Powered Flight	MN	MA.8.8.2.2.5	Represent geometric sequences using equations, tables, graphs and verbal descriptions, and use them to solve problems.
1903: Powered Flight	MN	MA.8.8.3.1.2	Determine the distance between two points on a horizontal or vertical line in a coordinate system. Use the Pythagorean Theorem to find the distance between any two points in a coordinate system.
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2007 Mathematics			
Academic Standards			
Minnesota Mathematics			
Grades 9-11			
Activity/Lesson	**State**	**Standards**	
1903: Powered Flight	MN	MA.9-11.9.3.1.5	Make reasonable estimates and judgments about the accuracy of values resulting from calculations involving measurements.